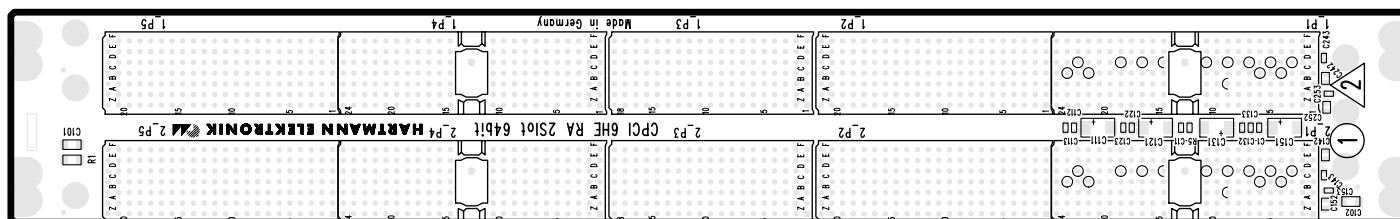


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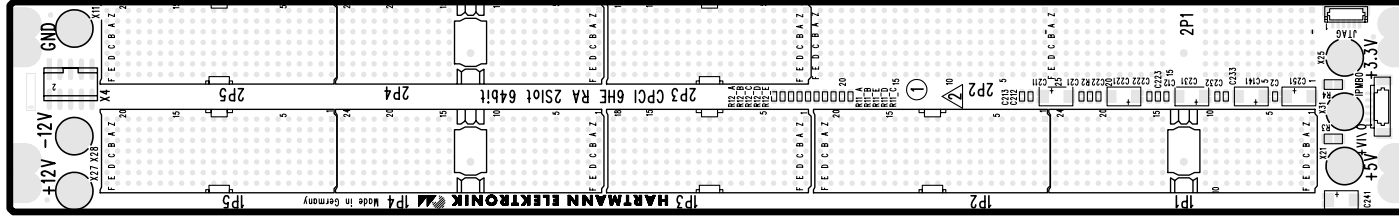
Silkscreen Top
Pads Top

Coding Key	V(I/O)			
	+3.3V	+5V		Cadmium
				Brilliant

				2007	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 2Slot 64bit BUS545 Rev.BB		
				Author	18.06.	Wiedmann			
				Check	18.06.	Wiedmann			
				DIN A3 M 1:1					
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet
									of
Rev	Description	Day	Name				Device: HE-C36RA026--4		File: BUS545BB

Hartmann Elektronik
CPCI 6HE RA 2Slot 64bit
BUS545 Rev.BB

X4 Pin Assignment	
Pin	Signal
1	PPB1-2
2	PPB1-2
3	PPB1-2
4	PPB1-2
5	PPB1-2
6	PPB1-2
7	PPB1-2
8	PPB1-2
9	PPB1-2
10	PPB1-2
11	PPB1-2
12	PPB1-2
13	PPB1-2
14	PPB1-2
15	PPB1-2
16	PPB1-2
17	PPB1-2
18	PPB1-2
19	PPB1-2
20	PPB1-2
21	PPB1-2
22	PPB1-2
23	PPB1-2
24	PPB1-2
25	PPB1-2
26	PPB1-2
27	PPB1-2
28	PPB1-2
29	PPB1-2
30	PPB1-2
31	PPB1-2
32	PPB1-2
33	PPB1-2
34	PPB1-2
35	PPB1-2
36	PPB1-2
37	PPB1-2
38	PPB1-2
39	PPB1-2
40	PPB1-2
41	PPB1-2
42	PPB1-2
43	PPB1-2
44	PPB1-2
45	PPB1-2
46	PPB1-2
47	PPB1-2
48	PPB1-2
49	PPB1-2
50	PPB1-2
51	PPB1-2
52	PPB1-2
53	PPB1-2
54	PPB1-2
55	PPB1-2
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94	PPB1-2
95	PPB1-2
96	PPB1-2
97	PPB1-2
98	PPB1-2
99	PPB1-2
100	PPB1-2



Pin Assignment	
Pin	Signal
1	PPB1-2
2	PPB1-2
3	PPB1-2
4	PPB1-2
5	PPB1-2
6	PPB1-2
7	PPB1-2
8	PPB1-2
9	PPB1-2
10	PPB1-2
11	PPB1-2
12	PPB1-2
13	PPB1-2
14	PPB1-2
15	PPB1-2
16	PPB1-2
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95	PPB1-2
96	PPB1-2
97	PPB1-2
98	PPB1-2
99	PPB1-2
100	PPB1-2

Pin Assignment	
Pin	Signal
1	PPB1-2
2	PPB1-2
3	PPB1-2
4	PPB1-2
5	PPB1-2
6	PPB1-2
7	PPB1-2
8	PPB1-2
9	PPB1-2
10	PPB1-2
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96	PPB1-2
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98	PPB1-2
99	PPB1-2
100	PPB1-2

Busbar for +5V keying

Busbar for +3.3V keying

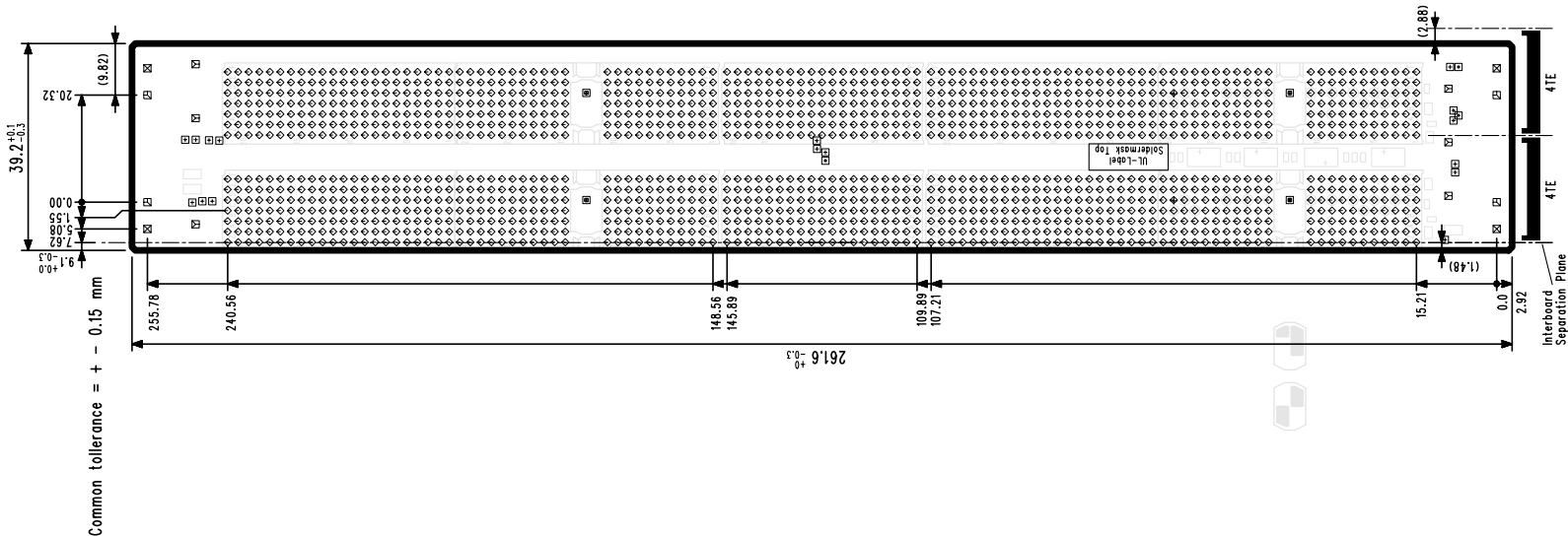
Silkscreen Bottom
Pads BottomBUS545 Rev.BB
CPCI 6HE RA 2Slot 64bit
Hartmann Elektronik

				2007	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 2Slot 64bit BUS545 Rev.BB	
				Author	18.06.	Wiedmann		
				Check	18.06.	Wiedmann		
				DIN A3 M 1:1				
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART				
Rev	Description	Day	Name				Number	Sheet
							Device: HE-C36RA026--4	File: BUS545BB
							of	

**HARTMANN
ELEKTRONIK**
MOTORSTRASSE 43
D-70499 STUTTGART

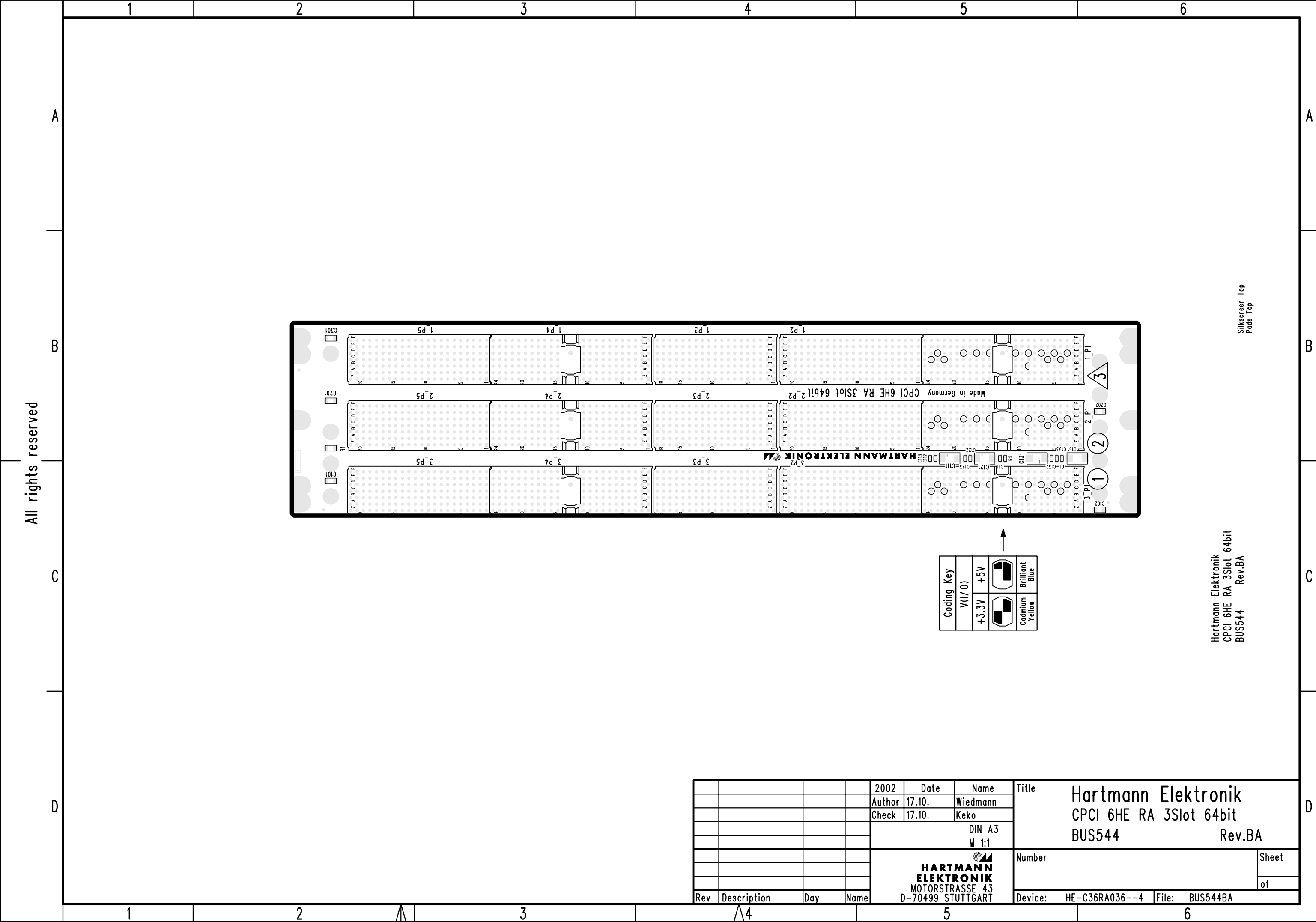
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Design Rules	Outer layer	Inner layer
Track width	140 μ m	140 μ m
Distance pad to track	200 μ m	140 μ m
Distance track to track	200 μ m	140 μ m
Restring	150 μ m	150 μ m



Hartmann Elektronik
CPCI 6HE RA 2Slot 64bit
BUS545 Rev.BB

			2007	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 2Slot 64bit BUS545 Rev.BB				
			Author	18.06.	Wiedmann					
			Check	18.06.	Wiedmann					
			DIN A3 M 1:1							
			 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet		
										of
Rev	Description	Day				Name			Device:	HE-C36RA026--4

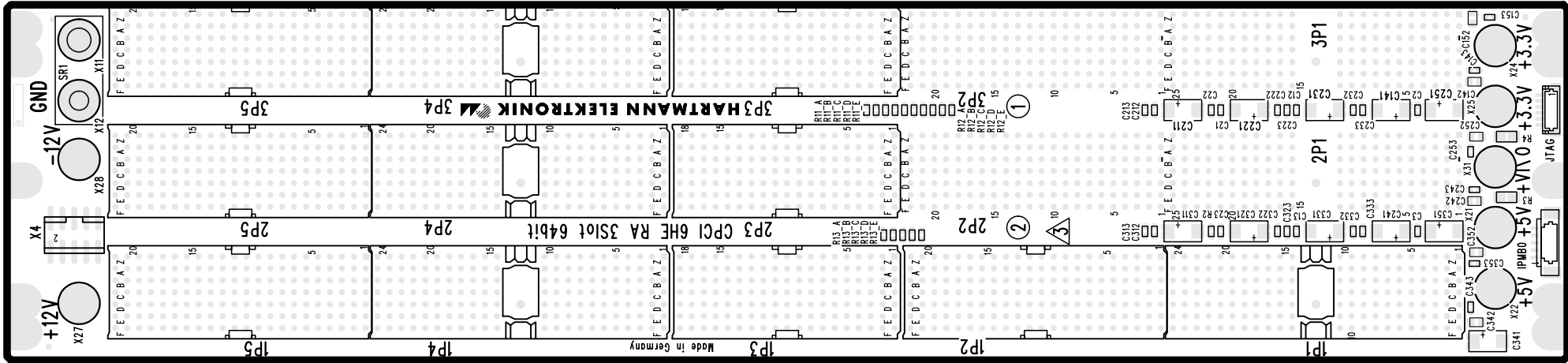


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Hartmann Elektronik
CPC1 6HE RA 3Slot 64bit
BUS544 Rev.BA

Silkscreen Top
Pads Top

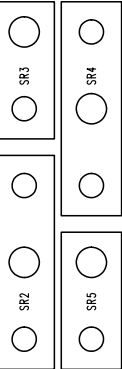
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X4 Pin Assignment			
Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3.3V	6	GND-Sense (+3.3V)
7	+5V	8	+5V-Sense
9	GND	10	GND-Sense (+5V)

JTAG Pin Assignment	
Pin	Signal
1	GND
2	TCK
3	TMS
4	TEST
5	TDI
6	TDO

IPMB Pin Assignment	
Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PMR
5	SMB_RSV



Busbar for +5V keying

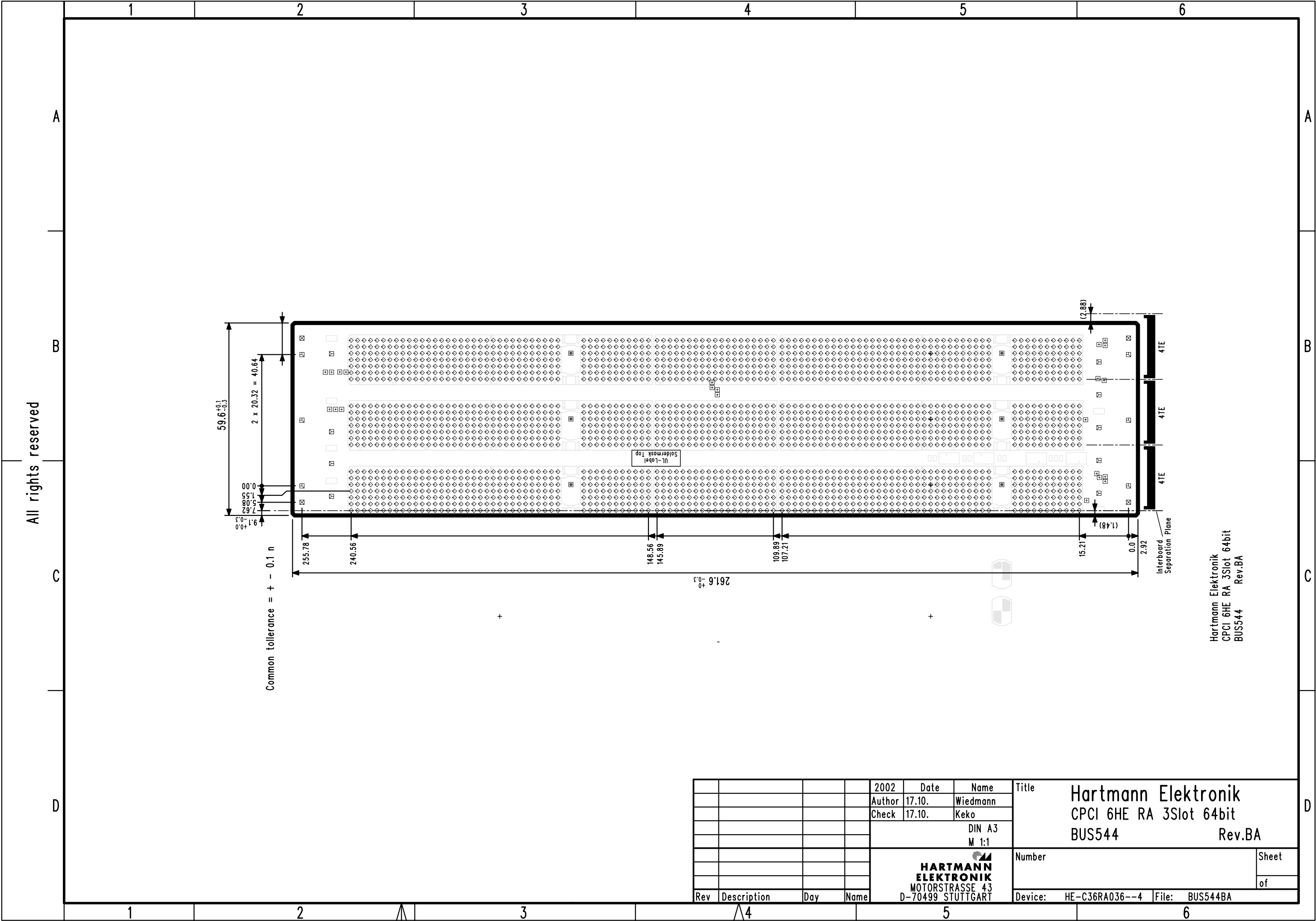
Busbar for +3.3V keying

Rev. BA
CPCI 6HE RA 3Slot 64bit
Hartmann Elektronik

Silkscreen Bottom
Pads Bottom

				2002	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 3Slot 64bit BUS544 Rev.BA			
				Author	17.10.	Wiedmann				
				Check	17.10.	Keko				
				DIN A3 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet	
									of	
Rev	Description	Day	Name				Device:	HE-C36RA036--4	File:	BUS544BA

Hartmann Elektronik
CPCI 6HE RA 3Slot 64bit
BUS544 Rev.BA



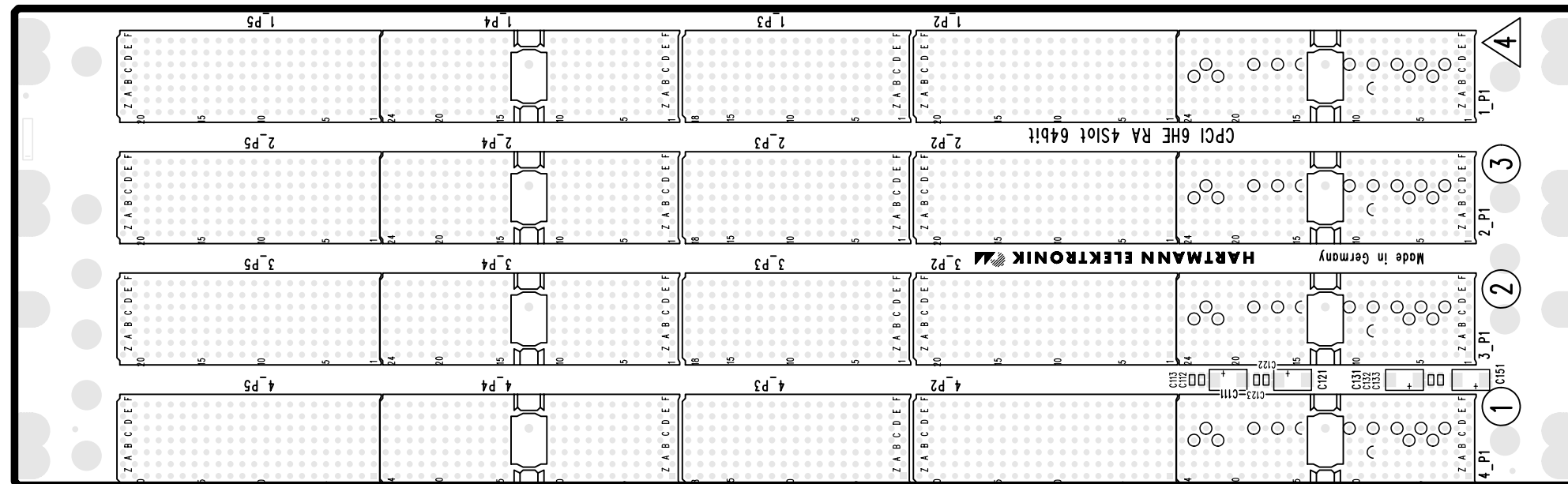
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Hartmann Elektronik
CPCI 6HE RA 3Slot 64bit
BUS544 Rev.BA

				2002	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 3Slot 64bit BUS544 Rev.BA	
				Author	17.10.	Wiedmann		
				Check	17.10.	Keko		
						DIN A3 M 1:1	Number	
							Device: HE-C36RA036--4 File: BUS544BA	
							Sheet	
							of	
Rev	Description	Day	Name					

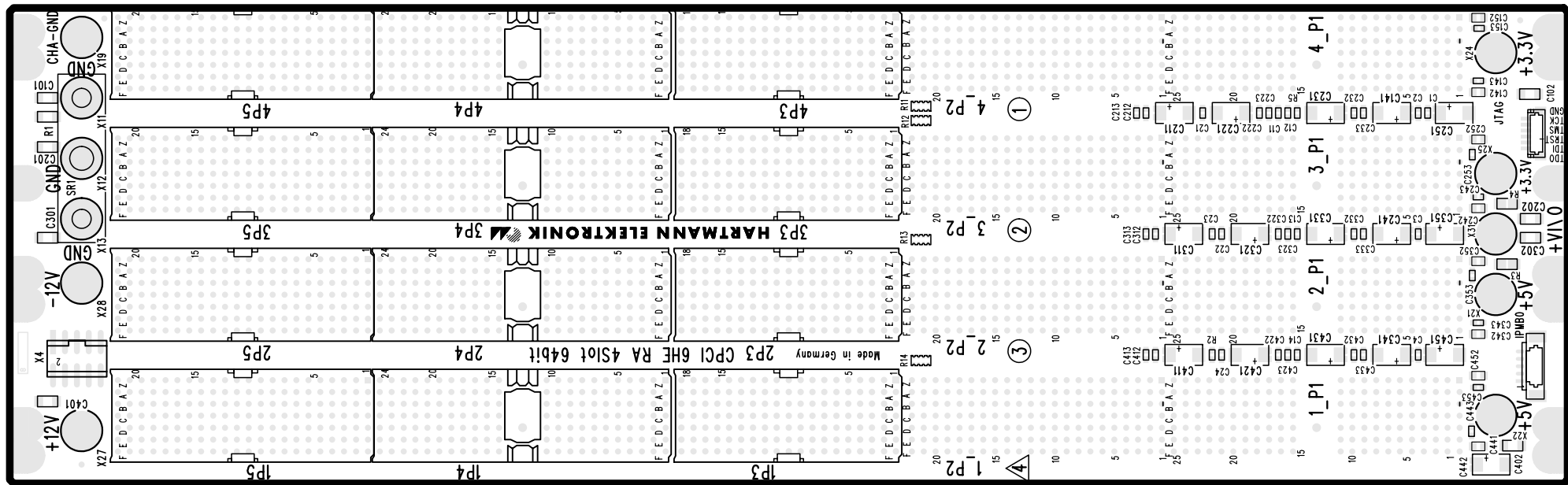
**HARTMANN
ELEKTRONIK**
MOTORSTRASSE 43
D-70499 STUTTGART

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Coding Key	V(I/O)			
	+3.3V	+5V		Cadmium
				Brilliant

				2006	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 4Slot 64bit BUS549 Rev.BB			
				Author	28.04.	Wiedmann				
				Check	28.04.	Wiedmann				
				DIN A3 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number	Sheet		
								of		
Rev	Description	Day	Name				Device: HE-C36RA046-14 File: BUS549BB			



Pin	Signal
1	GND
2	TCK
3	TMS
4	TRST-
5	TDI
6	TDO

IPMB0	
Pin Assignment	
Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB_RSV

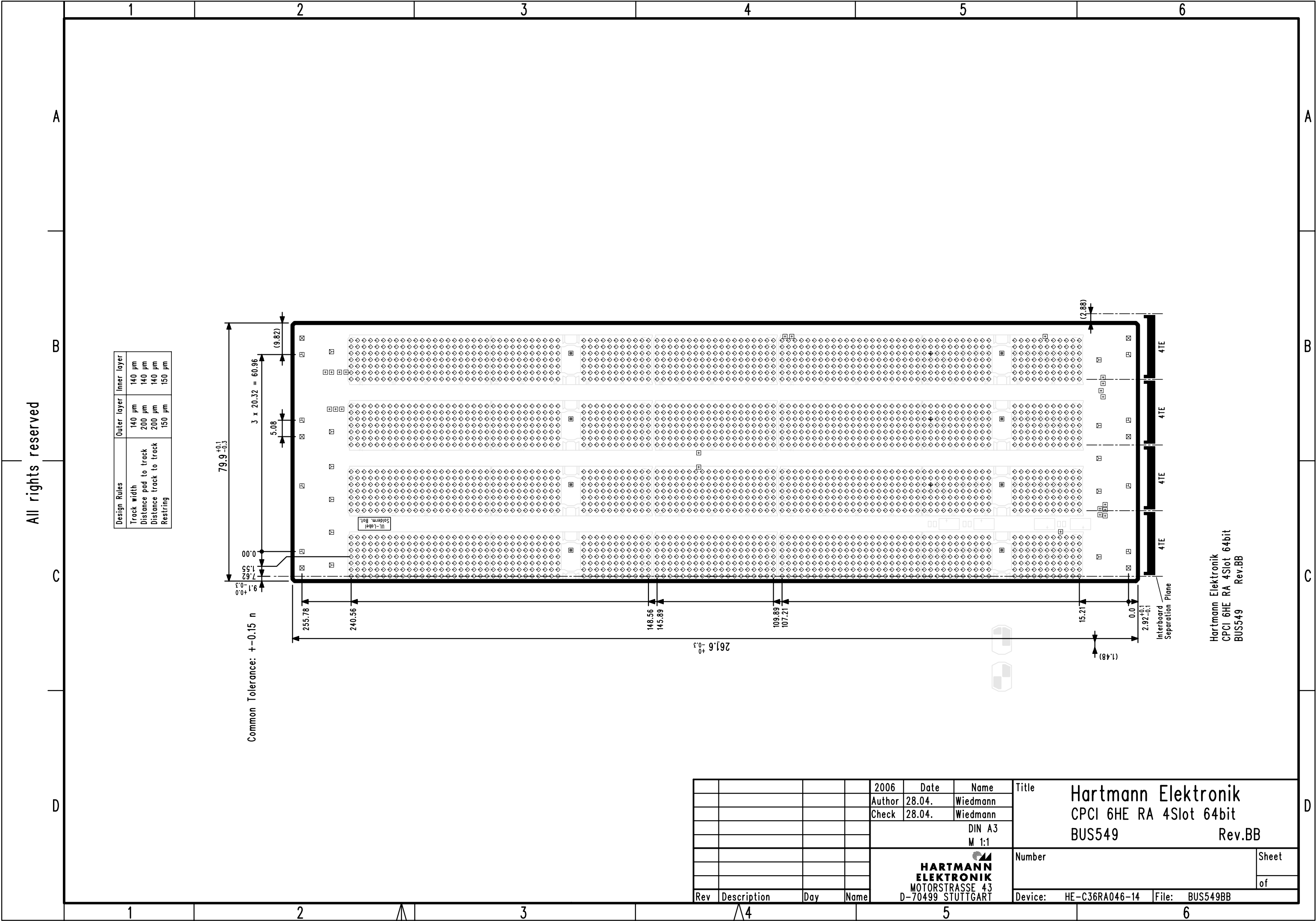
Busbar for +5V keying

Busbar for +3.3V keying

Rev.BB
B02249
CPCI 9HE RA 42104 64Pit
Hartmann Elektronik

Silkscreen Bottom
Pads Bottom

				2006	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 4Slot 64bit BUS549 Rev.BB			
				Author	28.04.	Wiedmann				
				Check	28.04.	Wiedmann				
				DIN A3 M 1:1						
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number			Sheet
										of
Rev	Description	Day	Name				Device:	HE-C36RA046-14	File:	BUS549BB



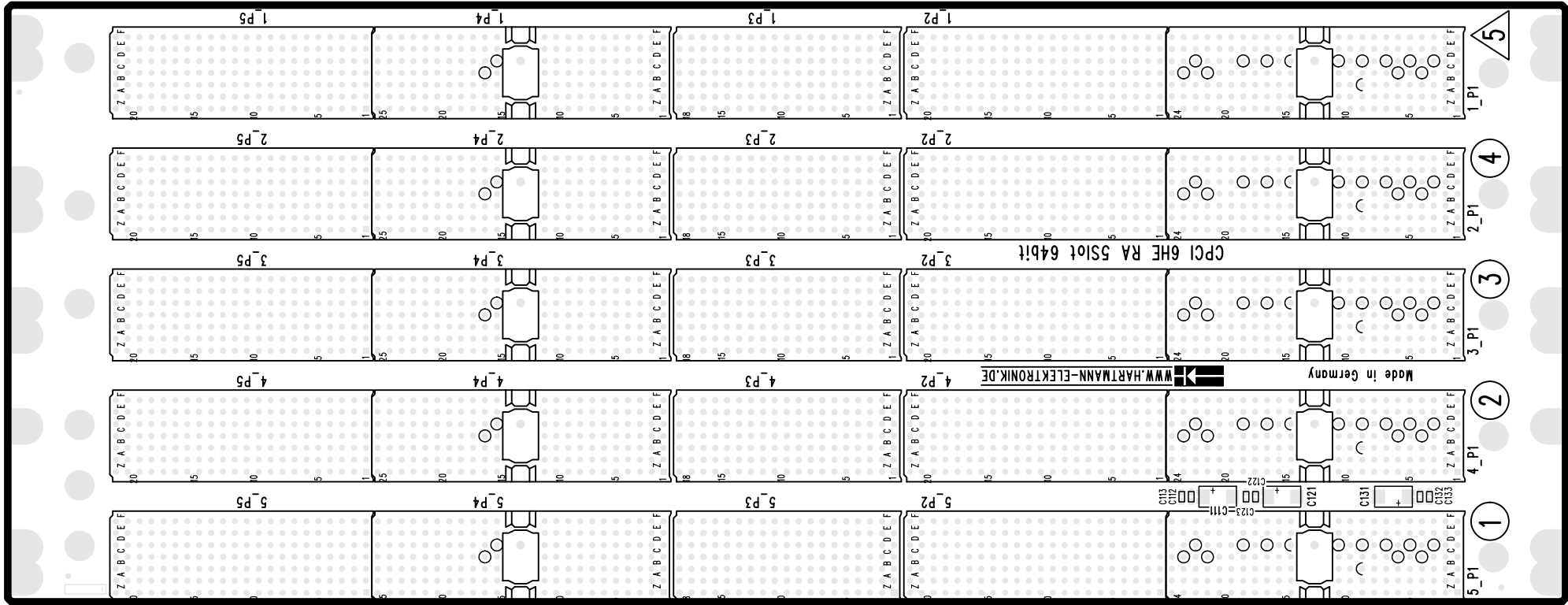
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Design Rules	Outer layer	Inner layer
Track width	140 µm	140 µm
Distance pad to track	200 µm	140 µm
Distance track to track	200 µm	140 µm
Restring	150 µm	150 µm

Hartmann Elektronik
CPCI 6HE RA 4Slot 64bit
BUS549 Rev.BB

				2006	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 4Slot 64bit BUS549 Rev.BB					
				Author	28.04.	Wiedmann						
				Check	28.04.	Wiedmann						
				DIN A3 M 1:1								
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet			
									of			
Rev	Description	Day	Name							Device:	HE-C36RA046-14	File:

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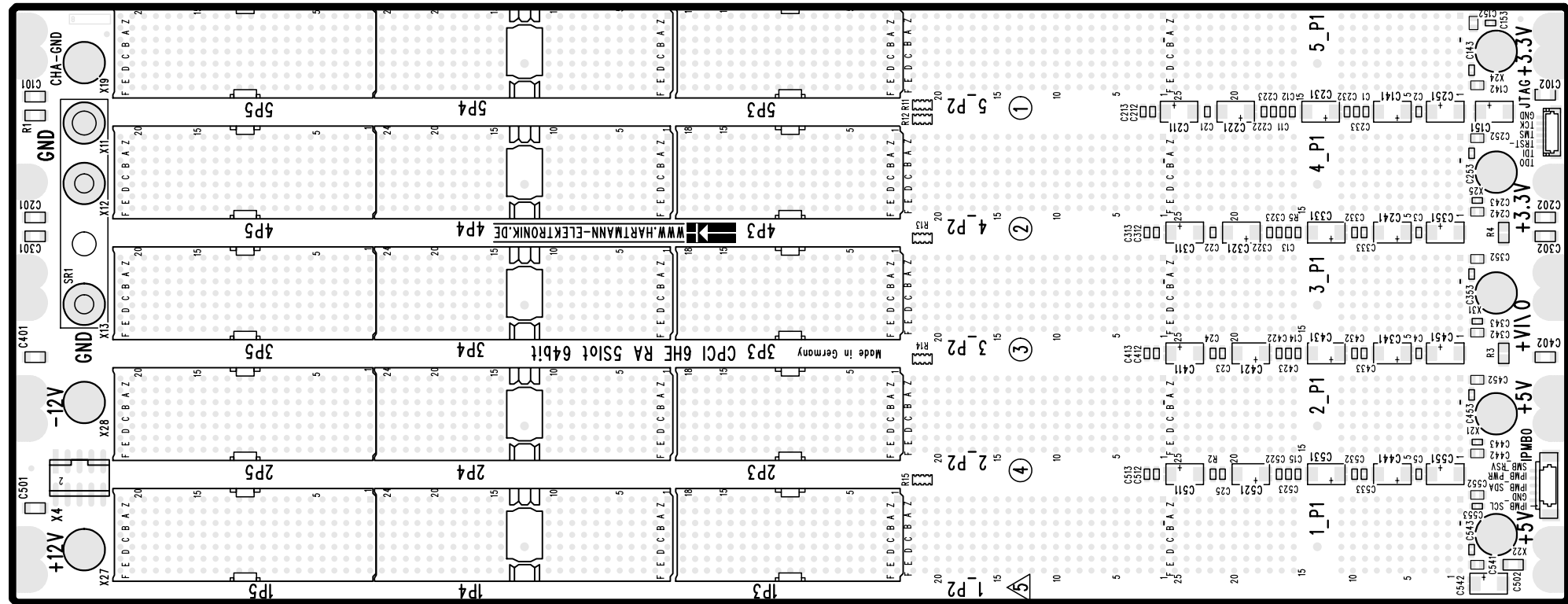
Coding Key	
V(1/0)	
+3.3V	+5V
	
Cadmium Yellow	Brilliant Blue

				2001	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 5Slot 64bit BUS543 Rev.BA				
				Author	05.04.	Wiedmann					
				Check	05.04.	Hamann					
				DIN A3 M 1:1							
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet		
									of		
Rev	Description	Day	Name				Device:		HE-C36RA056-14	File:	BUS543BA

Hartmann Elektronik
CPCI 6HE RA 5Slot 64bit
BUS543 Rev.BA

Silkscreen Top
Pads Top

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Busbar for +5V keying

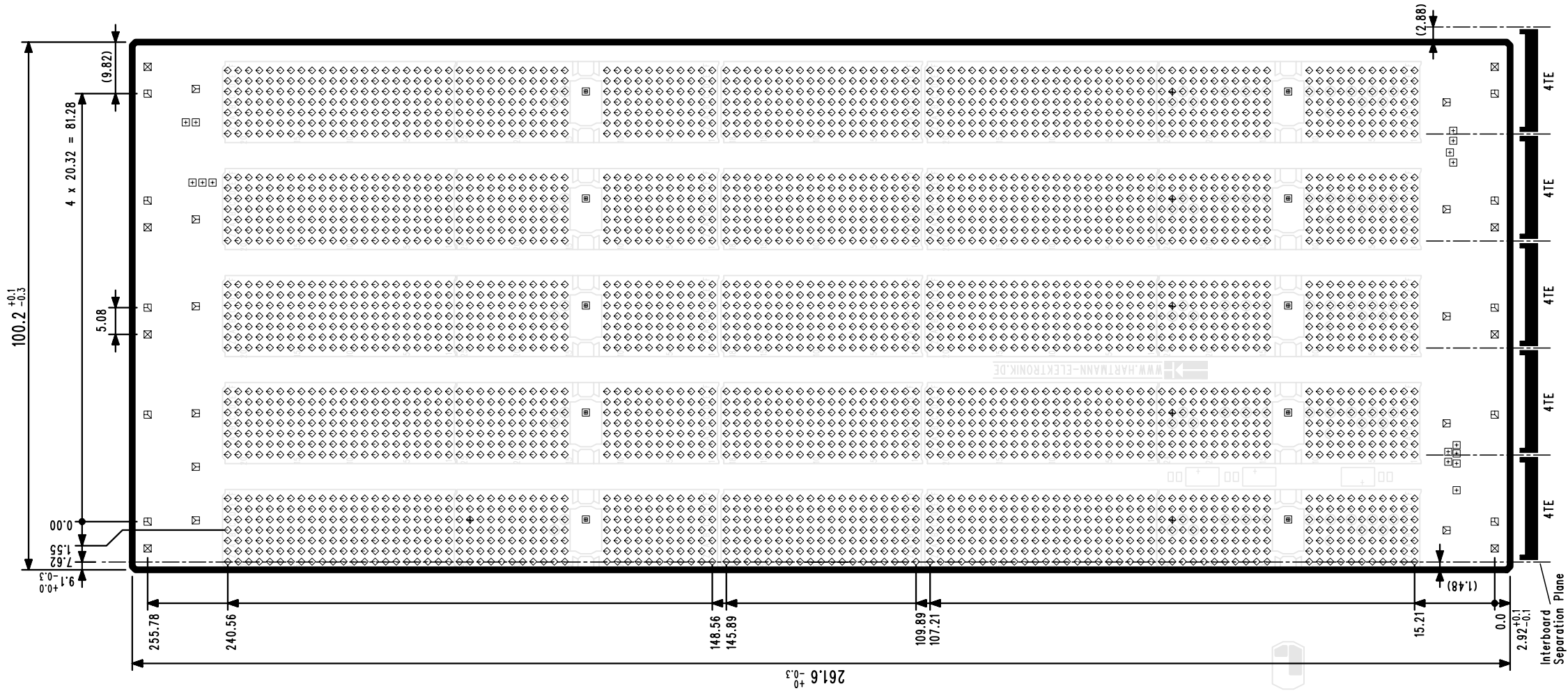
Busbar for +3.3V keying

BUS543 Rev.BA
CPCI 6HE RA 5Slot 64bit
Hartmann Elektronik

Silkscreen Bottom
Pads Bottom

				2001	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 5Slot 64bit BUS543 Rev.BA				
				Author	05.04.	Wiedmann					
				Check	05.04.	Hamann					
				DIN A3 M 1:1							
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet		
											of
Rev	Description	Day	Name							Device:	HE-C36RA056-14

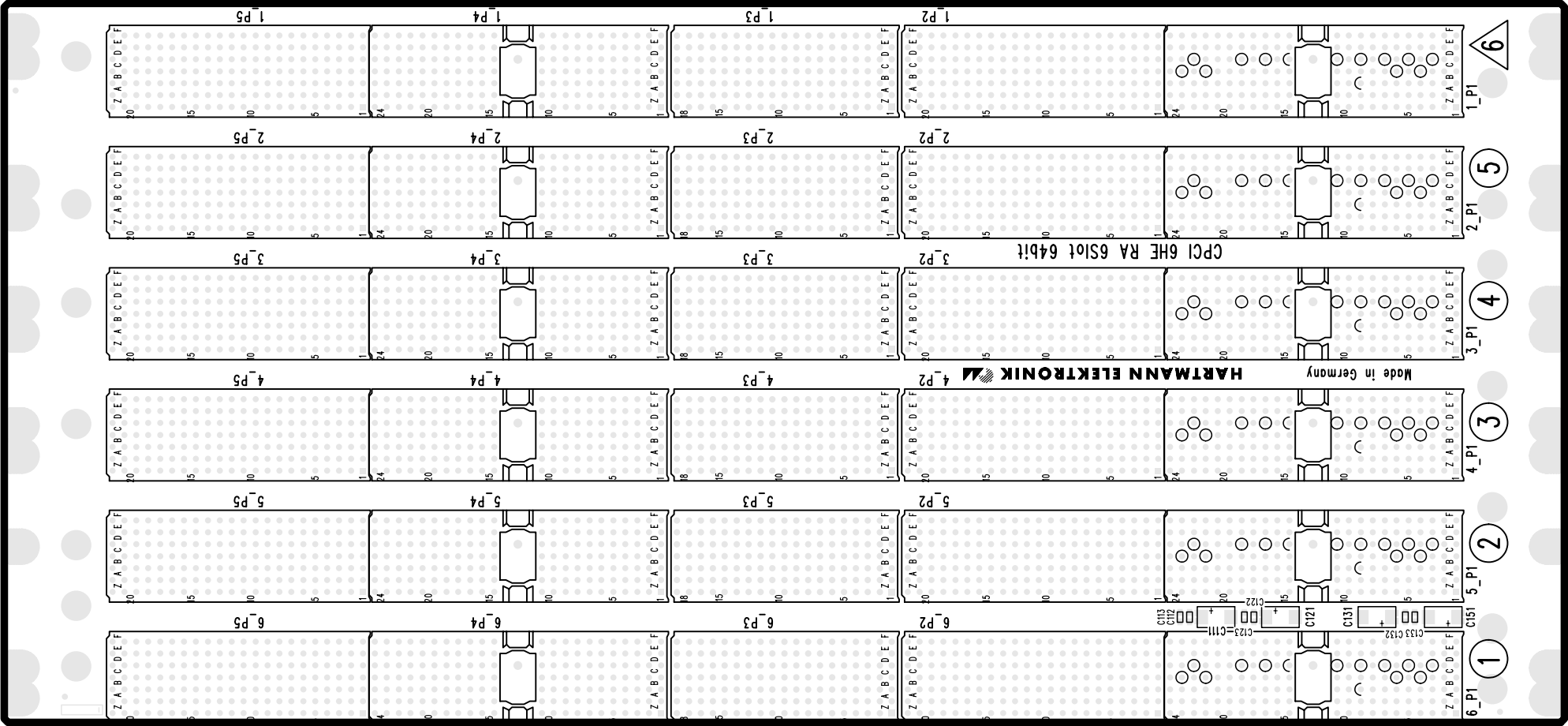
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Hartmann Elektronik
CPCI 6HE RA 5Slot 64bit
BUS543 Rev.BA

				2001	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 5Slot 64bit BUS543 Rev.BA					
				Author	05.04.	Wiedmann						
				Check	05.04.	Hamann						
				DIN A3 M 1:1								
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet			
									of			
Rev	Description	Day	Name							Device: HE-C36RA056-14		File: BUS543BA

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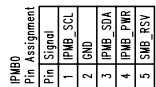


Coding Key
V(I/O)
+3.3V
+5V
Cadmium Yellow
Brilliant Blue

				2006	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 6Slot 64bit BUS548 Rev.BB				
				Author	02.05.	Wiedmann					
				Check	02.05.	Wiedmann					
				DIN A3 M 1:1							
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number		Sheet		
									of		
Rev	Description	Day	Name							Device:	HE-C36RA066-14

Hartmann Elektronik
CPCI 6HE RA 6Slot 64bit
BUS548 Rev.BB

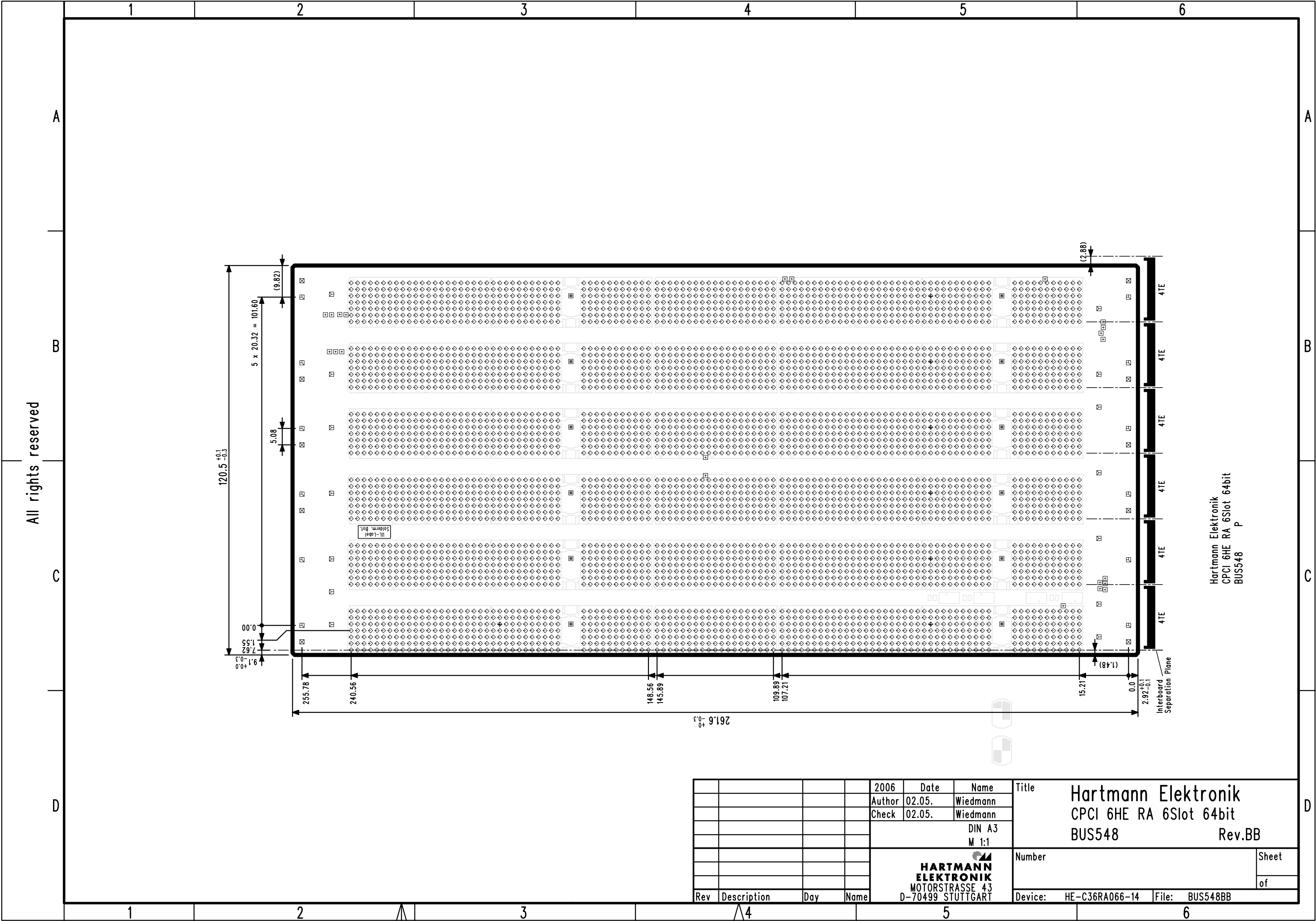
Silkscreen Top
Pads Top



Busbar for +3.3V keying

Silkscreen Bottom
Pads Bottom

				2006	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 6Slot 64bit BUS548 Rev.BB					
				Author	02.05.	Wiedmann						
				Check	02.05.	Wiedmann						
				DIN A3 M 1:1								
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART			Number	Sheet				
							of					
Rev	Description	Day	Name				Device: HE-C36RA066-14 File: BUS548BB					



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				2006	Date	Name	Title Hartmann Elektronik CPCI 6HE RA 6Slot 64bit BUS548 Rev.BB			
				Author	02.05.	Wiedmann				
				Check	02.05.	Wiedmann				
				DIN A3 M 1:1			Number			Sheet
				 HARTMANN ELEKTRONIK MOTORSTRASSE 43 D-70499 STUTTGART						of
Rev	Description	Day	Name							Device: HE-C36RA066-14

$$** V(I/O) = 3V_3 **$$

140.96

9.06

261.85

00

HARTMANN ELEKTRONIK

Symbol A0
Symbol A1

Holes-NDK

			Datum	Name	Kunde:	Hartmann Elektronik	
		Bearb.	14.05.2008	Keko	Projekt:	CPCI 6HE Ra Master 7SI 6d0it	
		Gegr.	14.05.2008	Keko	Pr.-Nr.:	BUS994	Rev.BA
		Nomr					
Zust.	Änderung				HE-C3GRAMT6-14		Blatt von
		Datum		Name	Datel:	HE/CPCI/BUS994BA	
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X4

Pin Assignment

Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3_3V	6	GND_Sense_+3.3V
7	+5V	8	+5V-Sense
9	GND	10	GND Sense +5V

IPMB

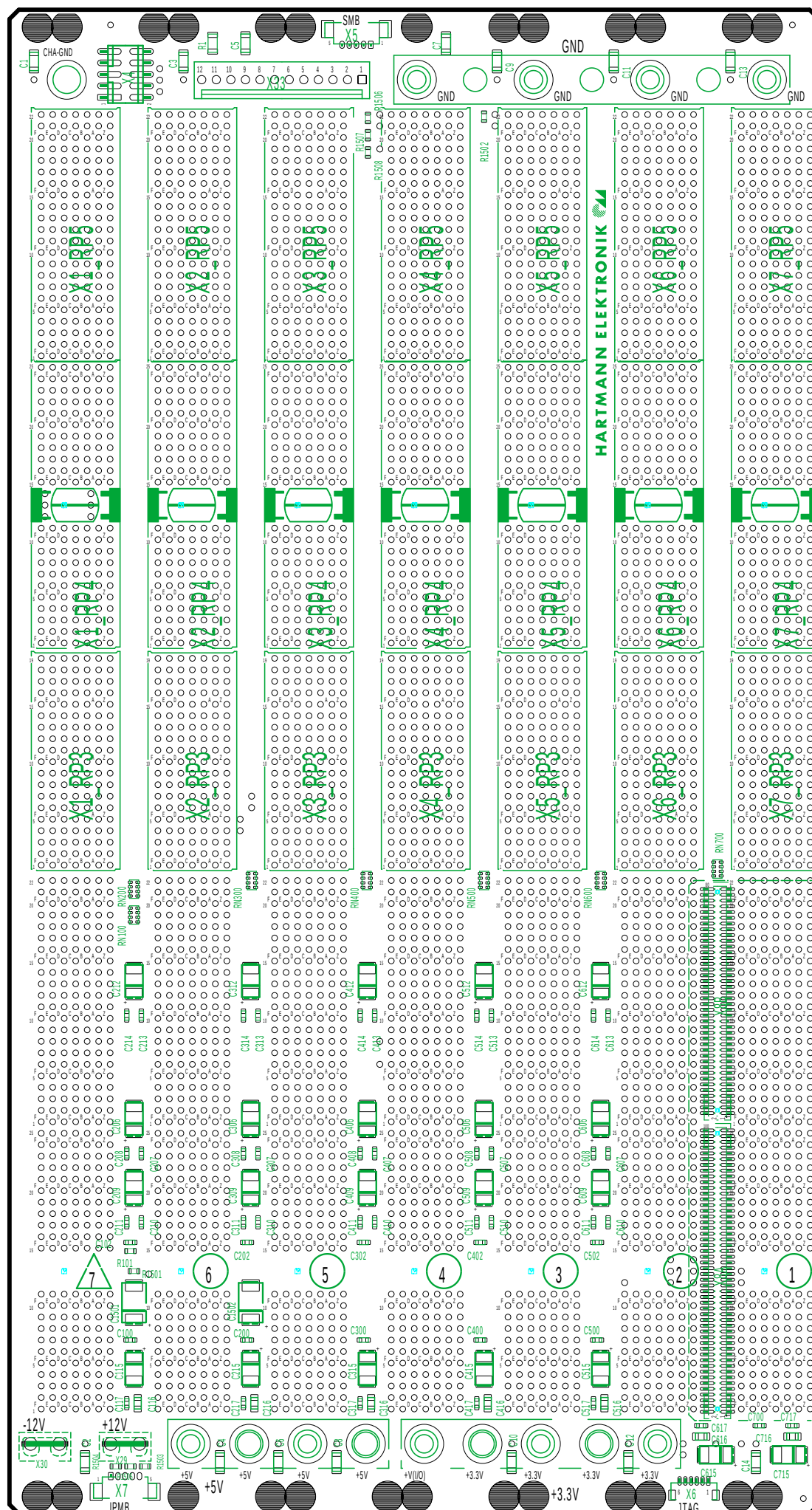
Pin Assignment

Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB RSV

JTAG

Pin Assignment

Pin	Signal
1	GND
2	TCK
3	TMS
4	TRST-
5	TDI
6	TDO

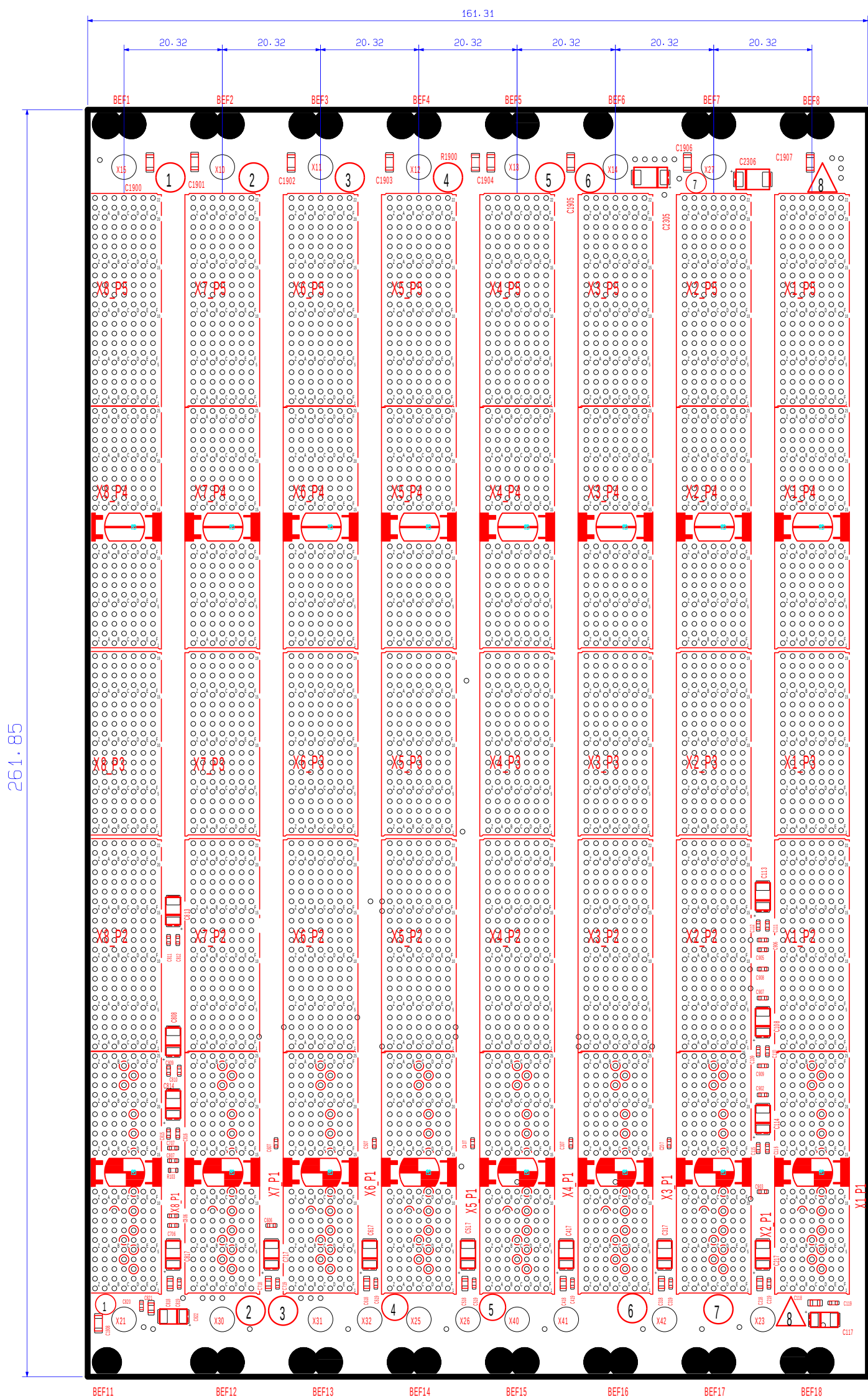


Symbol B0
Symbol B1

		Datum	Name	Kunde	Hartmann Elektronik PCI 6E RA Master 7SI 64bit	Rev.BA
Bearh.	14.05.2008	Keko		Projekt:	CUS994	
Gedr.	14.05.2008	Keko		Pr.-Nr.:		
				HE-C36RAM76-14	Blatt	
					von	
Zust.				Daten:	HE\PCIBU\S994BA	
Änderung		Datum	Name			

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**** V(I/O) = 3V3 ****



Pads A

Symbol A-1

HOLE NDK

				Datum	Name	Kunde:	Hartmann Elektronik	
		Bearb.	19.11.2007		Wiedmann	Projekt:	CPCI 6HE RA 8Slot 64Bit	
		Gepř.	19.11.2007		Hamann	Pr.-Nr.:	BUS943	Rev.BA
		Norm						
						.		Blatt .
						.		von .
Zust.	Aenderung	Datum	Name			Datei:	HEICPCIBUS943BA	
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$$** V(I/O) = 3V_3 **$$

140.96

9.06

261.85

00

HARTMANN ELEKTRONIK

Symbol A0
Symbol A1

Holes-NDK

			Datum	Name	Kunde:	Hartmann Elektronik	
		Bearbt.	14.05.2008	Kiko	Projekt:	CPCI 6HE RA Master 7SI 6d0it	
		Gegr.	14.05.2008	Kiko	Pr.-Nr.:	BUS994	Rev.BA
		Namr					
Zust.	Änderung		Datum	Name	HE-C36RAM76-14		Blatt von
					Datm:	HE/CPCI/BUS994BA	
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X4

Pin Assignment

Pin	Signal	Pin	Signal
1	PRST-	2	FAL-
3	DEG-	4	+3.3V-Sense
5	+3.3V	6	GND_Sense_+3.3V
7	+5V	8	+5V-Sense
9	GND	10	GND Sense +5V

IPMB

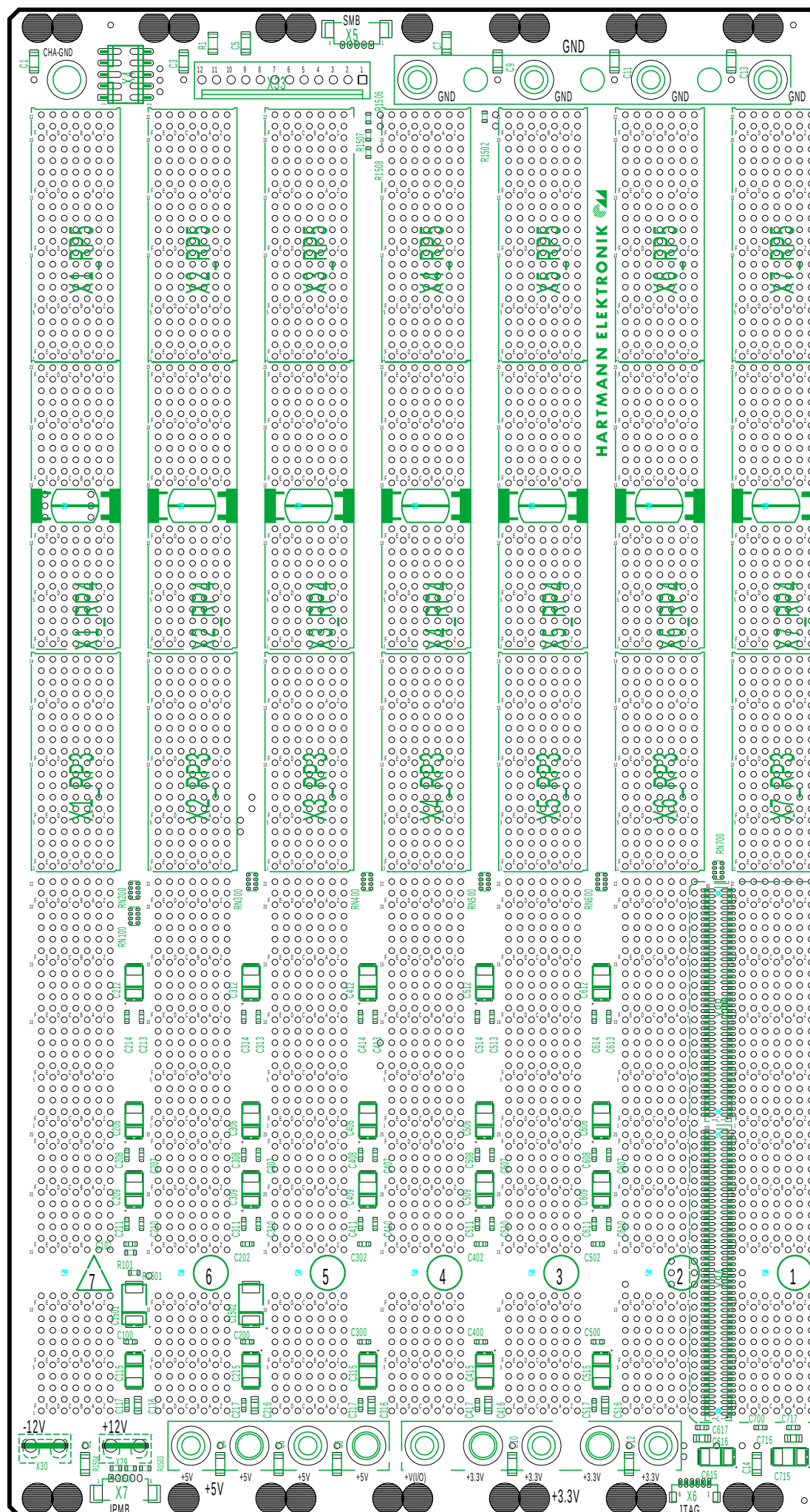
Pin Assignment

Pin	Signal
1	IPMB_SCL
2	GND
3	IPMB_SDA
4	IPMB_PWR
5	SMB_RSV

JTAG

Pin Assignment

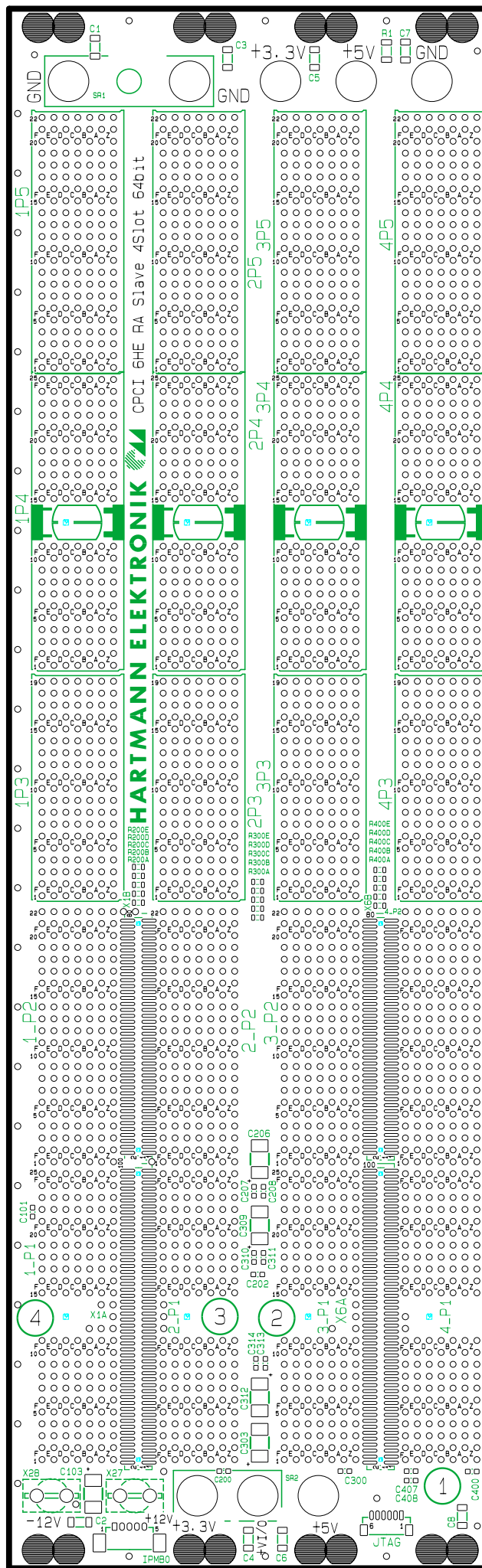
Pin	Signal
1	GND
2	TCK
3	TMS
4	TRST-
5	TDI
6	TDO



Symbol B0
Symbol B1

Holes-NDK

				Datum	Name	Kunde:	Hartmann Elektronik		
				Rearch	14.05.2008	Kain	CPCI 6HE RA Master TSI 64bit		
				Gepr.	14.05.2008	Koko	BUS94		Rev.BA
				Norm					
						HE-C36RAM76-14			Blatt
									von
						Datum	Name		
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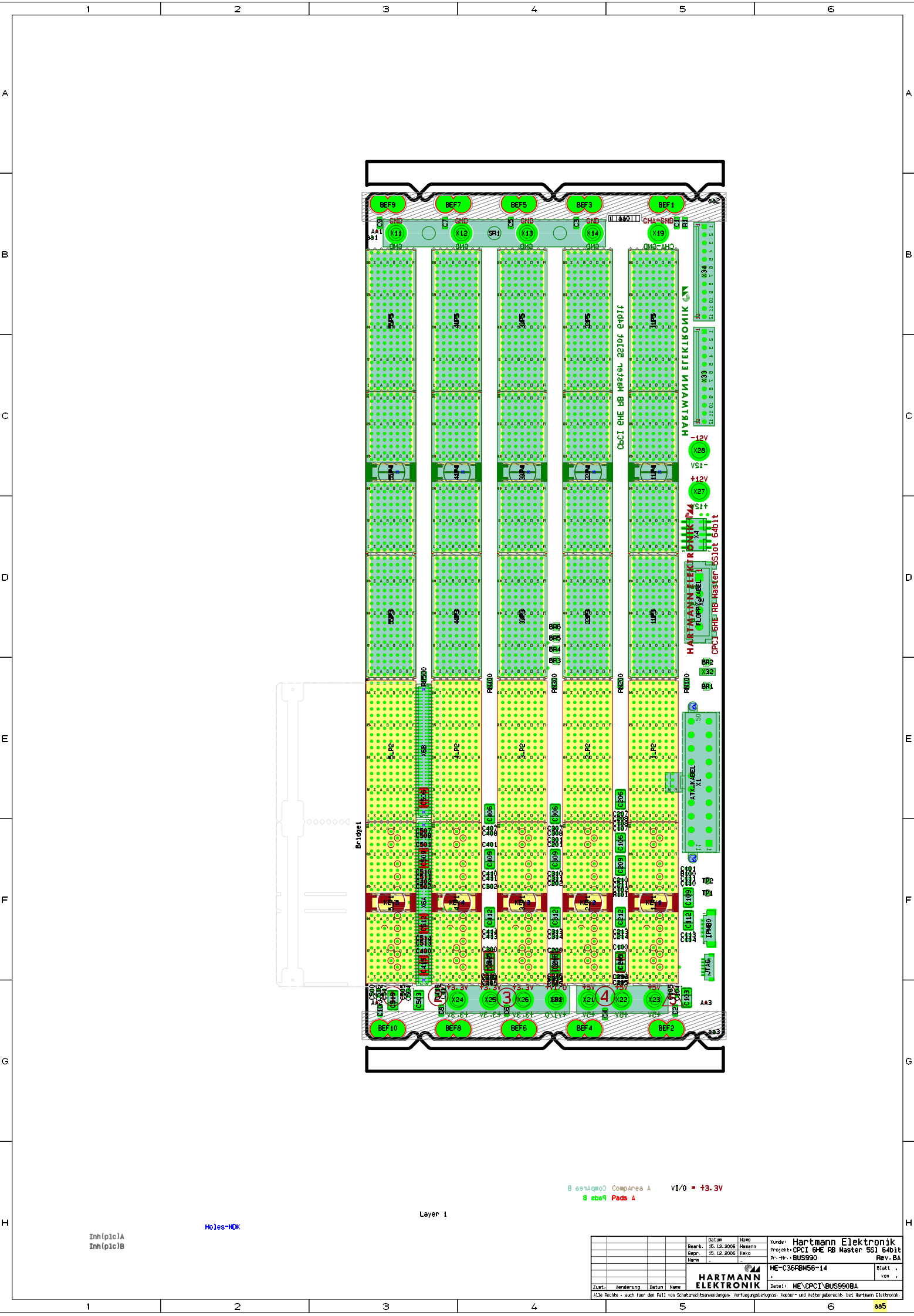
```
** V(I/O) = 3V3 **
```

H01es-NDK

Symbol B2

				Datum	Name	Kunde: Hartmann Elektronik	
			Bearb.	06.10.2008	Hammann	Projekt: CPCI 6HE RA Slave 4SI 64bit	
			Gepr.	06.10.2008	Hammann	Pr.-Nr.: BUS996 Rev. BA	
			Norm	-	-		
						HE-C36RAS46-14	
						Blatt .	
						von .	
Zust.	Aenderung	Datum	Name	Datei: HE\CPCI\BUS996BA			
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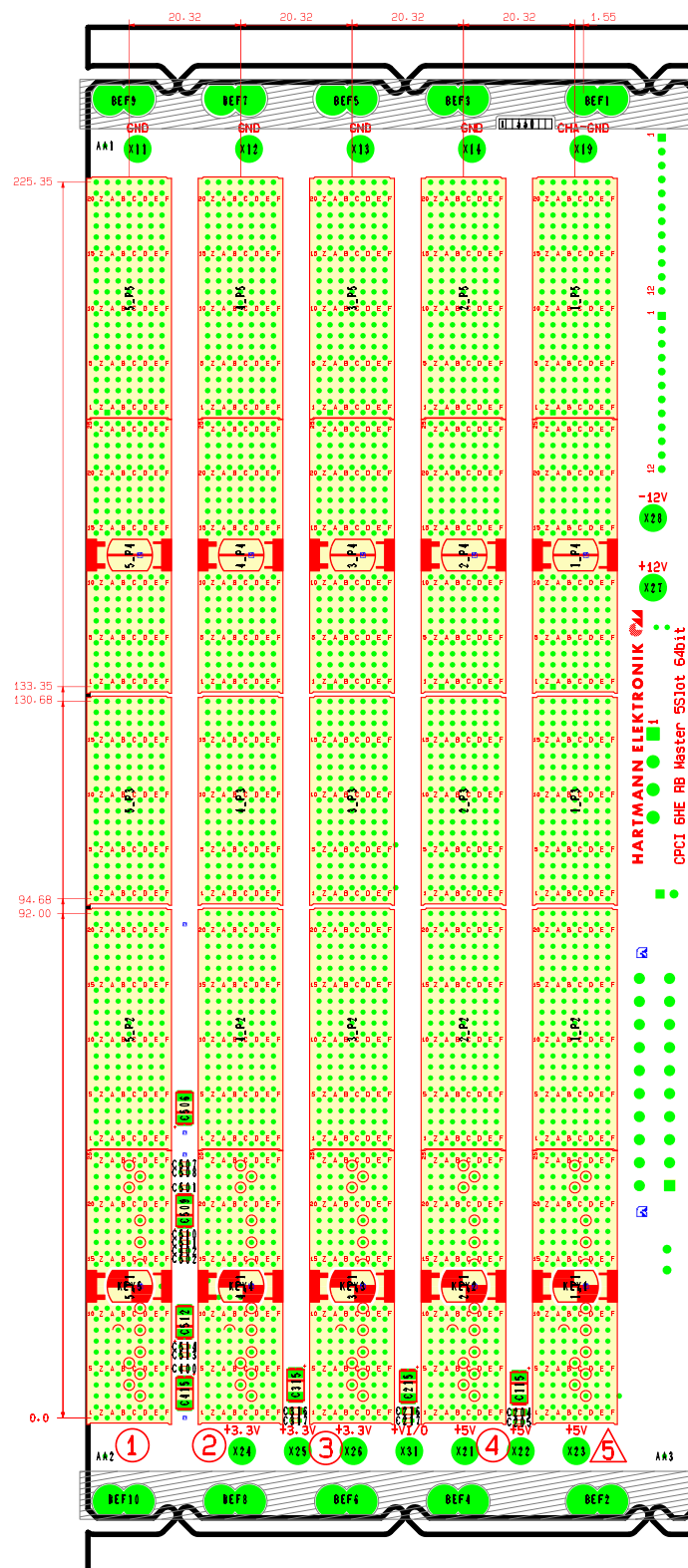
Inh(p1c)A
Inh(p1c)B

Holes-MCK

Layer 1

6 661Aqmo0 CompArea A VI/0 = +3.3V
8 ebe9 Pads A

		Datum	Name	Kunde:	Hartmann Elektronik			
		Bearb.	15.12.2006	Hahn	Projekt: CPC1 SHE PB Master SS1 64bit			
		Gepr.	15.12.2006	Keko	Pr.-Nr.: BUS990			
		Name	-	-	Rev. BA			
		 HARTMANN ELEKTRONIK			HE-C36PBW56-14	Blatt		
					Datei:	HE\CPC1\BUS990BA	von	
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Symbol A0

CompArea A V1/0 = +3.3V
Pads A

Layer 1

Inh(plc)A

Holes-NDK

	Datum	Name	Funde:	Hartmann Elektronik
Bearb.	19.12.2006	Hennsen	Projekt:	CPCI 6E MB Master 551 64bit
Gesp:	19.12.2006	Kelso	Pr.-Nr.:	BUS990 Rev. BA
Nr.	-	-		
			HE-C36B95-14	Blatt von
Zust.	Änderung	Datum	Name	Datei: HE\CPCI\BUS990BA
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A

B

C

D

E

F

G

H

A

B

C

D

E

F

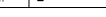
G

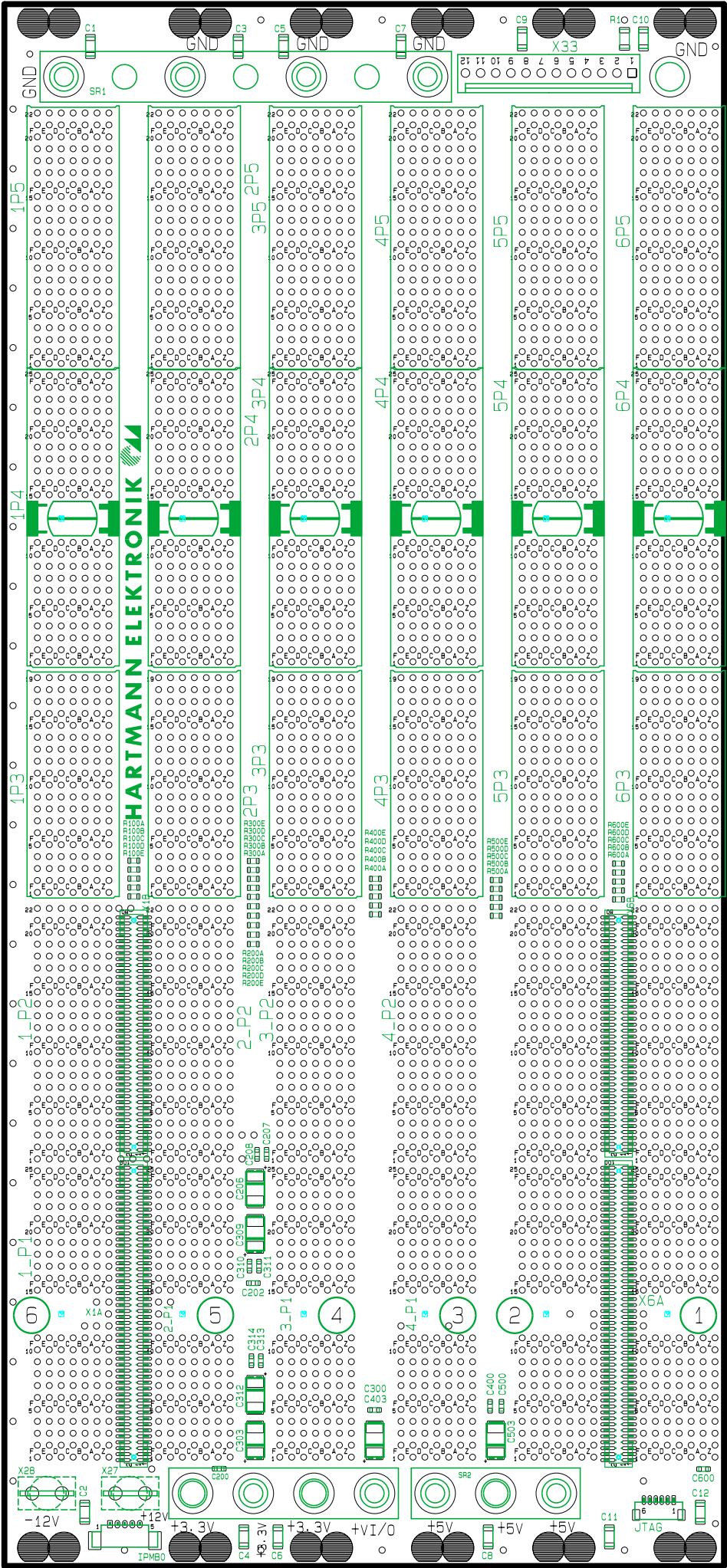
H

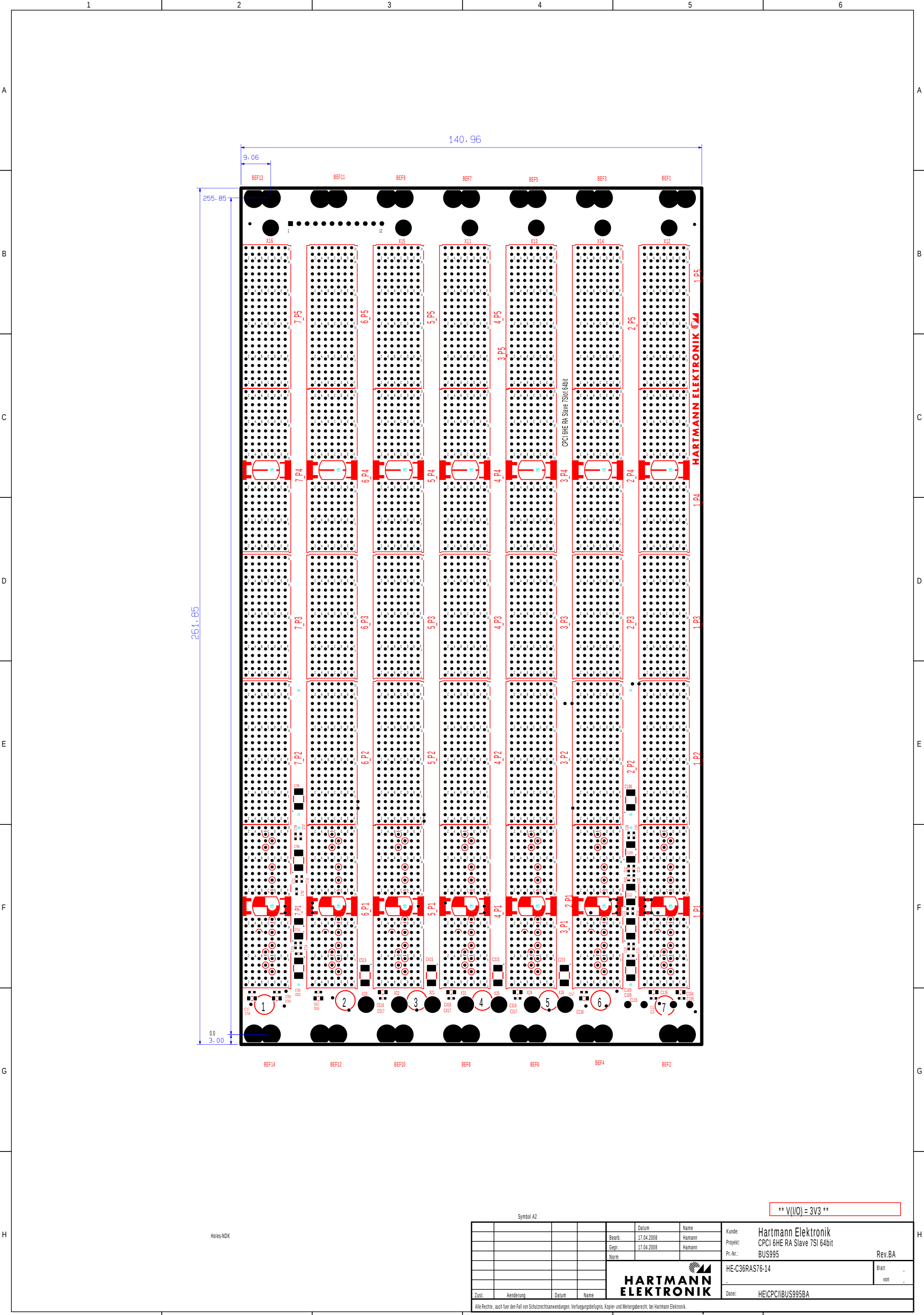
** V(I/O) = 3V3 **

Symbol B1

NDK-29104

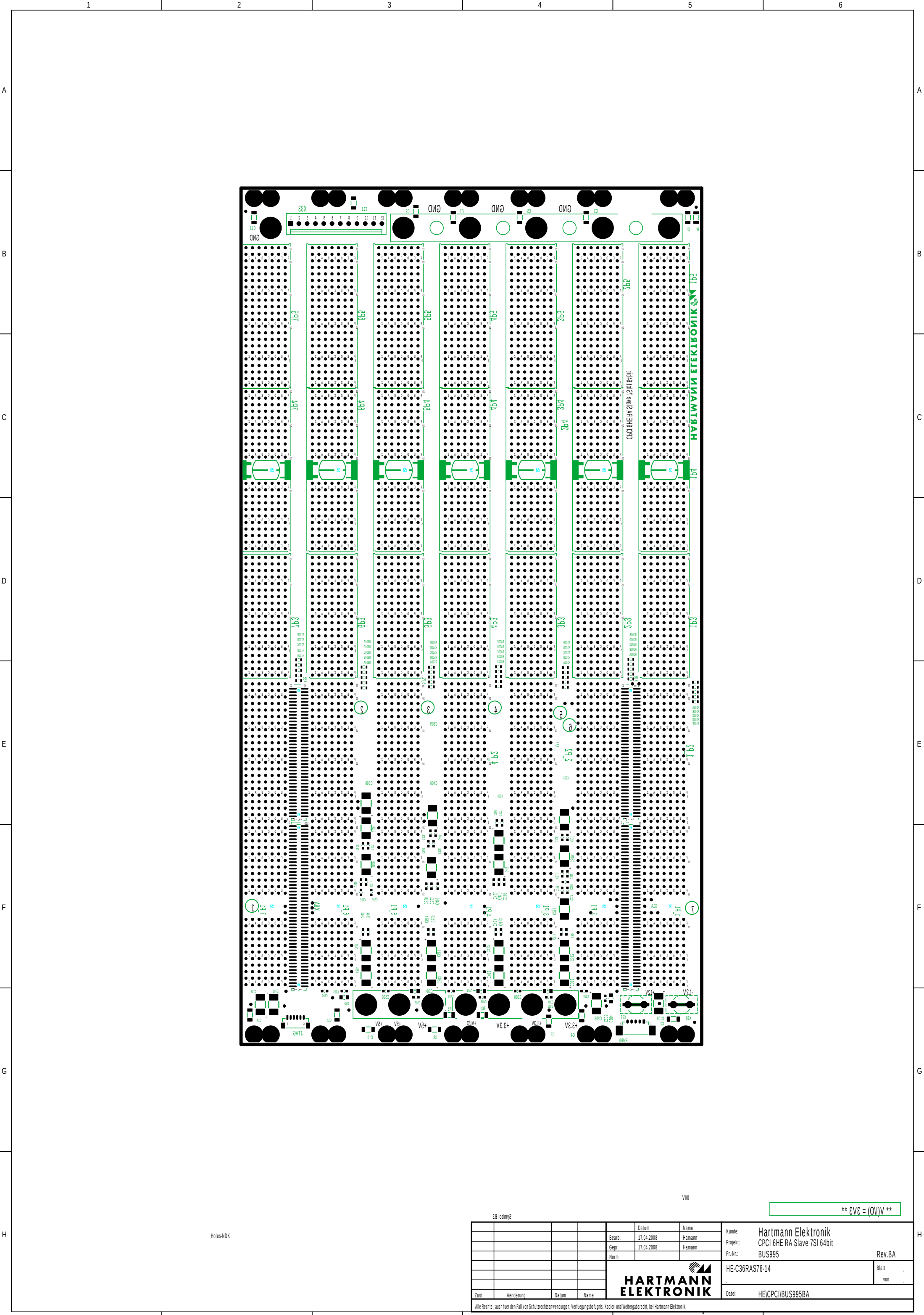
				Datum	Name	Kunde: Hartmann Elektronik		
				Bearb.	20.10.2008	Hamann	Projekt: CPCI 6HE RA Slave 6S1 64bit	
				Gepr.	20.10.2008	Hamann	Pr.-Nr.: BUS997	
				Norm	-	-	Rev. BA	
				 HARTMANN ELEKTRONIK			HE-C36RAS66-14	Blatt .
								von .
Zust.	Aenderung	Datum	Name	Datei: HE\CPCI\BUS997BA				
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					Datum	Name	Kunde:	Hartmann Elektronik	
					Bearb.	17.04.2008	Hamann	Projekt:	CPCI 6HE RA Slave 7SI 64bit
					Gepr.	17.04.2008	Hamann	Pr.-Nr.:	BUS995
					Norm				Rev.BA
								HE-C36RAS76-14	
								Blatt	
								von	
Zust.	Änderung	Datum	Name					Datei: HE\CPCI\BUS995BA	
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Holes-NDK

				Datum		Name		Kunde:		Hartmann Elektronik	
				Bearb.		17.04.2008		Hamann		CPCI 6HE RA Slave TSI 64bit	
				Gepr.		17.04.2008		Hamann		BUS995	
				Norm						Rev.BA	
										HE-C36RAS76-14	
										Blatt	
										von	
Zust.				Aenderung		Datum		Name		Datei:	
										HEICPCIBUS995BA	

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